

# Math 9

Name: \_\_\_\_\_

## 3.4 – Multiplying Rational Numbers

Date: \_\_\_\_\_

**Recall from Math 8:** When two numbers have the **SAME** sign, their **PRODUCT** is \_\_\_\_\_

When two numbers have **DIFFERENT** signs, their **PRODUCT** is \_\_\_\_\_

**Warm up:**    a.  $4 \times 6 =$                       b.  $-4 \times -6 =$                       c.  $-4 \times 6 =$   
                    d.  $-2 \times (-12) =$                       e.  $-2 \times 3 \times (-4) =$

Determine the following products and simplify the answer completely:

a.  $\frac{1}{2} \times \frac{3}{5} =$

b.  $\frac{2}{3} \times \frac{3}{5} =$

c.  $\frac{4}{9} \times \frac{3}{8} =$

d.  $\frac{1}{8} \times 16 =$

e.  $\frac{10}{9} \times \frac{6}{5} =$

f.  $1\frac{1}{6} \times \frac{3}{21} =$

g.  $-\frac{5}{2} \times \frac{1}{3} =$

h.  $-\frac{4}{9} \times \frac{3}{-20} =$

i.  $\left(-\frac{5}{8}\right)\left(-\frac{24}{25}\right) =$

j.  $\left(\frac{2}{3}\right)(-24) =$

k.  $\left(-1\frac{4}{7}\right)\left(-\frac{21}{44}\right) =$

l.  $\left(2\frac{2}{3}\right)\left(-1\frac{3}{4}\right) =$

## Multiplying Rational Numbers in Decimal Form

Determine the products of the following:

a.  $0.2 \times (-2.5)$

b.  $-1.5 \times 4$

c.  $(-4.05)(-0.3)$